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Paper

In re Application of	
Application Number: 08/690,136	Filed: 7-31-96
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US006258308B1

(12) **United States Patent**
Brady et al.

(10) **Patent No.: US 6,258,308 B1**
(45) **Date of Patent: Jul. 10, 2001**

(54) **PROCESS FOR ADJUSTING WVTR AND OTHER PROPERTIES OF A POLYOLEFIN FILM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/312,103**

(22) Filed: **May 14, 1999**

Related U.S. Application Data

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(60) Provisional application No. 60/104,452, filed on Oct. 16, 1998, provisional application No. 60/104,455, filed on Oct. 16, 1998, provisional application No. 60/104,948, filed on Oct. 20, 1998, and provisional application No. 60/104,985, filed on Oct. 20, 1998.

(51) **Int. Cl.**[7] **B29C 47/88**; B29C 55/18

(52) **U.S. Cl.** **264/210.2**; 264/288.8; 428/500

(58) **Field of Search** ..... 264/210.2, 154, 264/288.8, DIG. 47; 156/244.18, 206; 428/156, 163, 174, 175, 181, 308.4, 315.9, 516, 500; 442/290, 398

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(57) **ABSTRACT**

A process for rendering films, film composites, and articles made therefrom less resistant to passage of water vapor by passing a filled precursor film or film composite through the nip of interdigitating grooved rollers. The films or film composites are generally formed using a precursor film of a film forming polyolefin or polyolefin blend, with a relatively high filler loading and optionally an elastomer. A process is disclosed for making diapers or other disposable items where a relatively high water vapor is coupled with a resistance to liquid strikethrough. In one embodiment of the invention, the interdigitating grooved rollers are maintained in a temperature range of from about 91° F. to about 159° F.

18 Claims, 2 Drawing Sheets